

Refº. Unit Request: Earth Observation Laboratory (EO Lab)

Vacancy Title: Scientific Programmer

Location of work to be performed: Terceira, Azores

Contract Duration: 3 years

Job Description:

The AIR Centre is hiring a Scientific Programmer to support the MBON (Marine Biodiversity Observation Network) Secretariat and other networks and programmes being managed by the AIR Centre. The successful candidate will be part of a team of multidisciplinary scientists and engineers who conduct research in a variety of geographic areas, and will support their research, pushing the boundaries of satellite data applications.

MBON facilitates the development, implementation and ongoing functioning of an international operational network working to characterize large-scale patterns of changing life in the ocean. The Secretariat also streamlines field and data analysis methods to facilitate the collection of observations using common protocols and develops a community of practice that links operational agencies with research groups across the various disciplines represented in GEO BON (Group on Earth Observations Biodiversity Observation Network). The MBON Secretariat provides a coordinating mechanism to link the GEO efforts in marine biodiversity observation (MBON through GEO BON) with other key international ocean research and monitoring efforts as well as with local requirements for information about life in the sea and applied oceanography. Support to the Secretariat is needed on a variety of activities that may include one or more of the following: identification of historical and current biodiversity data, identifying fisheries, aquaculture, marine spatial planning, website maintenance and content management, interfacing and ensuring inter-operability with various international geo-portals and support programming for oceanographic applications based on remote sensing and in situ Earth Observations.

Tasks and Responsibilities:

- Coordinate activities with MBON Secretariat and Steering Group Chair and Co-Chair
- Assist in maintaining services to distribute data and products in coordination with other technical staff
- Coordinate activities with other networks such as the research institutions in the Atlantic related with the scientific agenda and the missions of AIR Centre
- Provide assistance to the development, maintenance and management of a system to process space derived data products
- Provide data quality analysis/assurance and provide satellite imagery for publications, production of data from new satellites with oceanographic instruments, and ingest all needed ancillary data.
- Support code development in high level programming languages to generate satellite derived products

Qualifications and experience requirements:

- Knowledge in programming languages and developing user applications
- Preferably experience with use of satellite imagery and GIS experience
- Good level of autonomy and planning skills
- Demonstrable and successful experience in proposal preparation

- Demonstrate a history and ability to develop and publish technical reports, papers, and products.
- Excellent verbal and written communication skills (mainly in English).
- Education: At least Master's equivalent in Geography, Oceanography, Remote Sensing, Biology, Biotechnology or related areas . Minor or extensive experience in either Marine Ecology, Marine Biology, Biological Oceanography, Computer Science or a related field would be valued. PhD would be valued.